

# SEQUENCE LISTING

<110> Cuevas, William A.  
Kumar, Manoj

<120> Use of Repeat Sequence Protein Polymers in Personal Care Compositions

<130> DOC 0057 PA / GC792-4 / DC 5074

<150> 60/454,077

<151> 2003-03-12

<160> 31

<170> PatentIn version 3.2

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<212> PRT

<213> Unknown

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<223> silk-like protein

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<212> PRT

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<223> silk fibroin protein

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Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala  
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Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala  
20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
35 40 45

Gly Ala Ala Gly Tyr  
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<223> Elastin-like protein

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<223> Byssus-like protein

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<210> 6  
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<223> Gluten-like protein

<400> 6

Pro Gly Gln Gly Gln Gln  
1 5

<210> 7  
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<223> Gluten-like protein

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Gly Tyr Tyr Pro Thr Ser Pro Gln Gln  
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<210> 8  
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<220>  
<223> Gluten-like protein

<400> 8

Gly Gln Gln  
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<210> 9  
<211> 28  
<212> PRT  
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<220>  
<223> Titin-like protein

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Pro Pro Ala Lys Val Pro Glu Val Pro Lys Lys Pro Val Pro Glu Glu  
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Lys Val Pro Val Pro Val Pro Lys Lys Pro Glu Ala  
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<210> 10  
<211> 12  
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<223> Extensin-like protein

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<210> 11  
<211> 4  
<212> PRT  
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Arg Gly Asp Ser  
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<223> Gliadin

<400> 12

Pro Gln Gln Pro Tyr  
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<210> 13  
<211> 5  
<212> PRT  
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<400> 13

Pro Thr Thr Thr Lys  
1 5

<210> 14  
<211> 8  
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<220>  
<223> Ice nucleating protein

<400> 14

Ala Gly Tyr Gly Ser Thr Gly Thr  
1 5

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<400> 15

Tyr Gly Gly Ser Ser Gly Gly Gly  
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<210> 16  
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Phe Gly Gly Gly Ser  
1 5

<210> 17

<211> 6

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<223> Muçin

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Thr Thr Thr Pro Asp Val  
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<210> 18

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<223> RNA polymerase II

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<210> 19

<211> 780

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<223> SELP 47K

<400> 19

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val  
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro  
20 25 30

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro  
35 40 45

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala  
50 55 60

Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly  
65 70 75 80

val Pro Gly val Gly val Pro Gly Lys Gly val Pro Gly val Gly Pro  
 85 90 95  
 Gly val Gly Pro Gly val Gly Pro Gly val Gly Pro Gly Ala Gly Ala  
 100 105 110  
 Gly ser Gly Ala Gly Ala Gly ser Gly Ala Gly Ala Gly ser Gly Ala  
 115 120 125  
 Gly Ala Gly ser Gly val Gly val Pro Gly val Gly val Pro Gly val  
 130 135 140  
 Gly val Pro Gly Lys Gly val Pro Gly val Gly Pro Gly val Gly Pro  
 145 150 155 160  
 Gly val Gly Pro Gly val Gly Pro Gly Ala Gly Ala Gly ser Gly Ala  
 165 170 175  
 Gly Ala Gly ser Gly Ala Gly Ala Gly ser Gly Ala Gly Ala Gly ser  
 180 185 190  
 Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly  
 195 200 205  
 Lys Gly val Pro Gly val Gly Pro Gly val Gly Pro Gly val Gly Pro  
 210 215 220  
 Gly val Gly Pro Gly Ala Gly Ala Gly ser Gly Ala Gly Ala Gly ser  
 225 230 235 240  
 Gly Ala Gly Ala Gly ser Gly Ala Gly Ala Gly ser Gly val Gly val  
 245 250 255  
 Pro Gly val Gly val Pro Gly val Gly val Pro Gly Lys Gly val Pro  
 260 265 270  
 Gly val Gly Pro Gly val Gly Pro Gly val Gly Pro Gly val Gly Pro  
 275 280 285  
 Gly Ala Gly Ala Gly ser Gly Ala Gly Ala Gly ser Gly Ala Gly Ala  
 290 295 300  
 Gly ser Gly Ala Gly Ala Gly ser Gly val Gly val Pro Gly val Gly  
 305 310 315 320  
 val Pro Gly val Gly val Pro Gly Lys Gly val Pro Gly val Gly Pro  
 325 330 335

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala  
340 345 350

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala  
355 360 365

Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
370 375 380

Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro  
385 390 395 400

Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala  
405 410 415

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
435 440 445

Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro  
450 455 460

Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
465 470 475 480

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val  
485 490 495

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro  
500 505 510

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro  
515 520 525

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala  
530 535 540

Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly  
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro  
565 570 575

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala  
580 585 590

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala  
595 600 605

Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
610 615 620

Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro  
625 630 635 640

Gly Val Gly Pro Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala  
645 650 655

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
660 665 670

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
675 680 685

Lys Gly Val Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro  
690 695 700

Gly Val Gly Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
705 710 715 720

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro  
740 745 750

Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro Gly Val Gly Pro  
755 760 765

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
770 775 780

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<212> PRT  
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<223> Abductin-like protein

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<223> X = any amino acid

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<221> MISC\_FEATURE  
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<400> 20

Gly Xaa Xaa  
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<210> 21  
<211> 39  
<212> DNA  
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<223> Primer 5' to 3' Glutamic Acid conversion

<400> 21  
gggagttggt gtacctggag aaggtgttcc gggggtagg 39

<210> 22  
<211> 39  
<212> DNA  
<213> Unknown

<220>  
<223> Primer 3' to 5' Glutamic Acid conversion

<400> 22  
ccctcaacca catggacctc ttccacaagg ccccatcc 39

<210> 23  
<211> 39  
<212> DNA  
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<220>  
<223> Primer 5' to 3' Arginine Conversion

<400> 23  
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<212> DNA  
<213> Unknown

<220>  
<223> Primer 3' to 5' Arginine Conversion

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<211> 884  
<212> PRT  
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<223> SELP 47E-13

<400> 25

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1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro  
20 25 30

Met Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
50 55 60

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
65 70 75 80

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
85 90 95

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
100 105 110

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
115 120 125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
130 135 140

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
145 150 155 160

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
165 170 175

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
180 185 190

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
195 200 205

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
210 215 220

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
225 230 235 240

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
245 250 255

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
260 265 270

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
275 280 285

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
290 295 300

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
305 310 315 320

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
325 330 335

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
340 345 350

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
355 360 365

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
370 375 380

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
385 390 395 400

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
405 410 415

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
435 440 445

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
450 455 460

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
465 470 475 480

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
485 490 495

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
500 505 510

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
515 520 525

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
530 535 540

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
565 570 575

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
580 585 590

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
595 600 605

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
610 615 620

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
625 630 635 640

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
645 650 655

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
660 665 670

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
675 680 685

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
690 695 700

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
705 710 715 720

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
725 730 735

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
755 760 765

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
770 775 780

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
785 790 795 800

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
805 810 815

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
820 825 830

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Glu Pro Gly Val  
835 840 845

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
850 855 860

Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser His His  
865 870 875 880

His His His His

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<211> 246  
<212> PRT  
<213> Unknown

<220>  
<223> SELP 47R-3

<400> 26

Met Asp Pro Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val  
1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro  
20 25 30

Met Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
50 55 60

Pro Gly Arg Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
65 70 75 80

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
85 90 95

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Val Gly  
100 105 110

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
115 120 125

Pro Gly Arg Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
130 135 140

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
145 150 155 160

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
165 170 175

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
180 185 190

Pro Gly Arg Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
195 200 205

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
210 215 220

Ser Gly Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser  
225 230 235 240

His His His His His His  
245

<210> 27  
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<212> PRT  
<213> Unknown

<220>  
<223> SELP 47K-3

<400> 27

Met Asp Pro Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val  
1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro  
20 25 30

Met Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
50 55 60

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
65 70 75 80

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
85 90 95

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
100 105 110

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
115 120 125

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
130 135 140

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
145 150 155 160

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
165 170 175

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
180 185 190

Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
195 200 205

Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
210 215 220

Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser His His  
225 230 235 240

His His His His

<210> 28  
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<212> PRT  
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<223> SELP 47E-3

<400> 28

Met Asp Pro Val val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val  
1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro  
20 25 30

Met Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
50 55 60

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
65 70 75 80

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
85 90 95

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
100 105 110

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
115 120 125

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
130 135 140

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
145 150 155 160

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
165 170 175

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
180 185 190

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
195 200 205

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
210 215 220

Ser Gly Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Asp Leu Arg Ser  
225 230 235 240

His His His His His His  
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 <212> PRT  
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<220>  
 <223> Collagen-like protein

<400> 29

Met Asp Pro Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val  
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Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro  
 20 25 30

Met Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala  
 35 40 45

Gly Pro Lys Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly  
 50 55 60

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala  
 65 70 75 80

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
 85 90 95

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
 100 105 110

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
 115 120 125

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln  
 130 135 140

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly  
 145 150 155 160

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro  
 165 170 175

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala  
 180 185 190

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly  
 195 200 205

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala  
210 215 220

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
225 230 235 240

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
245 250 255

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala His Gly Pro  
260 265 270

Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His  
275 280 285

Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly  
290 295 300

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro  
305 310 315 320

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala  
325 330 335

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly  
340 345 350

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala  
355 360 365

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
370 375 380

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
385 390 395 400

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
405 410 415

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln  
420 425 430

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly  
435 440 445

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro  
450 455 460

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala  
465 470 475 480

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly  
485 490 495

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala  
500 505 510

Gln Gly Pro Ala Gly Pro Gly Gly Ala His Gly Pro Ala Gly Pro Lys  
515 520 525

Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly  
530 535 540

Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala Gln Gly Pro  
545 550 555 560

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln  
565 570 575

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly  
580 585 590

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro  
595 600 605

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala  
610 615 620

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly  
625 630 635 640

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala  
645 650 655

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
660 665 670

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
675 680 685

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
690 695 700

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln  
705 710 715 720

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly  
725 730 735

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro  
740 745 750

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala  
755 760 765

Gly Pro Gly Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly  
770 775 780

Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala  
785 790 795 800

His Gly Pro Ala Gly Pro Lys Gly Ala Gln Gly Pro Ala Gly Pro Gly  
805 810 815

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
820 825 830

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
835 840 845

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln  
850 855 860

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly  
865 870 875 880

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro  
885 890 895

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala  
900 905 910

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly  
915 920 925

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala  
930 935 940

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
945 950 955 960

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
965 970 975

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
980 985 990

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln  
995 1000 1005

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
1010 1015 1020

Gly Ala His Gly Pro Ala Gly Pro Lys Gly Ala His Gly Pro Ala  
1025 1030 1035

Gly Pro Lys Met Asp Pro Gly Arg Tyr Gln Leu Ser Ala Gly Arg  
1040 1045 1050

Tyr His Tyr Gln Leu Val Trp Cys Gln Lys  
1055 1060

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<212> PRT  
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<223> SELP 67K

<400> 30

Met Asp Pro Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val  
1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro  
20 25 30

Met Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
35 40 45

Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly  
50 55 60

Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly  
65 70 75 80

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
85 90 95

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
100 105 110

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
115 120 125

Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
130 135 140

Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
145 150 155 160

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
165 170 175

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val  
180 185 190

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly  
195 200 205

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
210 215 220

Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
225 230 235 240

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
245 250 255

Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
260 265 270

Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val  
275 280 285

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly  
290 295 300

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Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly  
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Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly  
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ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
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Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val  
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
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Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
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Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val  
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly  
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Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
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Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly  
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Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly  
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Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
690 695 700

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val  
785 790 795 800

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
820 825 830

Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
850 855 860

Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val  
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly  
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Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly  
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Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val  
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
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Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val  
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340 345 350

Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro  
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Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly  
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Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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610 615 620

Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly  
625 630 635 640

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val  
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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690 695 700

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly  
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Val Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
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Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly  
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Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
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Asp Pro Gly Arg Tyr Gln Leu Ser Ala Gly Arg Tyr His Tyr Gln Leu  
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Val Trp Cys Gln Lys  
965